



SPECIFICATION

TITLE OF THE INVENTION

OPTICAL INFORMATION RECORDING APPARATUS FOR
STABLE RECORDING

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BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to an apparatus and a method for recording information on a recording medium such as an optical disk by applying a laser beam to an optical recording medium.

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2. Description of Prior Art

An optical information recording medium such as an optical disk has been recently developed and marketed as an external memory of a computer and a medium for recording images and sounds. Optical disks that are already being practically used and on which data can be recorded include organic-dye-based, phase-change-type, and magneto-optic disks in which data is recorded by applying a laser beam to a recording film.

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Pulse width modulation (hereinafter referred to as PWM) is known for recording data on an optical disk at a high density. The PWM technology performs modulation so that edges at the leading and trailing ends of record marks correspond to one of a digital signal. Such a technique is favorable in order to record data at a high density because more bits can be assigned in a record mark of the same length than the pulse position modulation technology for performing modulation so that the position of a record mark corresponds to one of a digital signal.

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